	Application No.	Applicant(s)
Notice of Allowability	10/700,853	WICKER, THOMAS E.
	Examiner	Art Unit
	Thanh Y. Tran	2822
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate commestigents. This application is	n this application. If not included unication will be mailed in due course. THIS
1. This communication is responsive to <u>10/7/04</u> .		
2. The allowed claim(s) is/are <u>1-9</u> .		
3.   The drawings filed on 05 November 2003 are accepted by	the Examiner.	
<ul> <li>4. Acknowledgment is made of a claim for foreign priority una)</li> <li>a) All b) Some* c) None of the:</li> <li>1. Certified copies of the priority documents have</li> <li>2. Certified copies of the priority documents have</li> <li>3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)).</li> <li>* Certified copies not received:</li> </ul>	e been received. e been received in Application	on No
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file MENT of this application.	e a reply complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be subminformal PATENT APPLICATION (PTO-152) which give		
6. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must (a) ☐ including changes required by the Notice of Draftspers 1) ☐ hereto or 2) ☐ to Paper No./Mail Date  (b) ☐ including changes required by the attached Examiner' Paper No./Mail Date  Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the state of the sheet.	son's Patent Drawing Review  s Amendment / Comment on  84(c)) should be written on t	r in the Office action of he drawings in the front (not the back) of
7. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT	Sit of BIOLOGICAL MAT FOR THE DEPOSIT OF BIO	ERIAL must be submitted. Note the DLOGICAL MATERIAL.
Attachment(s)  1. ☑ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 11/25/03  4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview S Paper No. 08), 7. ⊠ Examiner's	formal Patent Application (PTO-152) ummary (PTO-413), 'Mail Date Amendment/Comment  Statement of Reasons for Allowance
		CAMIR ZOTTORN SUBLEMVISORY PART OF TOTOINER TOWNOLOGY CENTER 2800

## **DETAILED ACTION**

## **EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

In claim 1, line 5, "at lease" has been changed to: --at least--.

## Allowable Subject Matter

- 2. Claims 1-9 are allowed.
- 3. The following is a statement of reasons for the indication of allowable subject matter: claim 1 recites, inter alia, "a method of processing semiconductor substrates and reducing particle contamination and/or process drift during consecutive processing of the substrates, the method comprising the steps of: placing a substrate on a substrate holder in an interior space of a plasma processing chamber, the processing chamber includes at least one slip cast part having a surface exposed to the interior space, the slip cast part having free silicon contained therein and a protective layer on the surface which protects the silicon from being attacked by the plasma in the interior space; removing the substrate from the processing chamber; and consecutively processing additional substrates in the processing chamber while minimizing particle contamination of the substrates and/or reducing processing drift during the processing step as a result of protecting the free silicon from attack by the plasma"; and in the combination with other claimed features.

The art of record does not disclose the above limitations, nor would it be obvious to 1. modify the art of record so as to include the above limitations.

Kennedy et al (U.S. 6,227,140) teaches in figures 1-3 a method of processing a semiconductor substrate having a heated ceramic layer, Kennedy et al does not teach the method comprising: protective layer on the surface of the slip cast part to protect the silicon from being attacked by the plasma in the interior space of the plasma processing chamber.

Benjamin et al (U.S. 5,820,723) teaches in figures 1-4 a method comprising a plasma processing chamber; Wicker et al (U.S. 5,863,376) teaches in figure 1 a temperature controlling method and an apparatus for a plasma processing chamber. They do not teach the method comprising: a protective layer on the surface of the slip cast part to protect the silicon from being attacked by the plasma in the interior space of the plasma processing chamber; and removing the substrate from the chamber, and consecutively processing additional substrates in the processing chamber while minimizing particle contamination of the substrates.

Wicker et al (U.S. 6,251,793) teaches a particle controlling method for plasma processing chamber comprising the steps of: processing the substrate by supplying process gas to the processing chamber and energizing the process gas into a plasma state in the processing chamber; minimizing particle contamination during processing of substrates. However, Wicker et al (U.S. 6,251,793) does not teach the method comprising: a protective layer on the surface of the slip cast part to protect the silicon from being attacked by the plasma in the interior space of the plasma processing chamber.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue Art Unit: 2822

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

## **Contact Information**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thanh Y. Tran whose telephone number is (571) 272-2110. The examiner can normally be reached on M-F (9-6:30pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amir Zarabian can be reached on (571) 272-1852. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

**TYT** 

UPEHV

2**8**00